

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

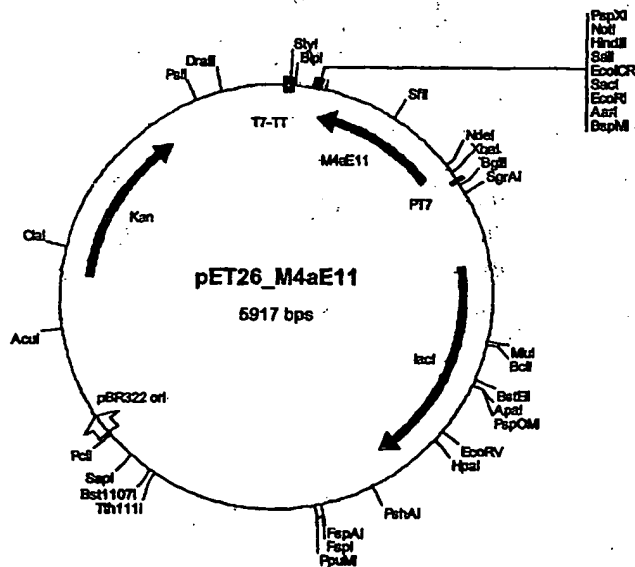
(10) International Publication Number
WO 2005/056782 A2

- (51) International Patent Classification⁷: C12N 9/00
- (21) International Application Number:
PCT/US2004/040438
- (22) International Filing Date: 3 December 2004 (03.12.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/526,764 3 December 2003 (03.12.2003) US
- (71) Applicants (for all designated States except US): GENENCOR INTERNATIONAL, INC. [US/US]; 925 Page Mill Road, Palo Alto, California 94304 (US). THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, Ohio 45202 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): AMIN, Neelam, S. [US/US]; 1422 Bellevue Avenue, #102, Burlingame, California 94010 (US). BOSTON, Matthew, G. [US/US]; 10 Arch Lane, San Carlos, California 94070 (US). BOTT,

Richard, R. [US/US]; 3032 Hillside Drive, Burlingame, California 94010 (US). CERVIN, Marguerite, A. [CA/US]; 404 Palomar Dr., Redwood City, California 94062 (US). CONCAR, Edward, M. [US/US]; 720 Haight Street, #103, San Francisco, California 94117 (US). GUSTWILLER, Marc, E. [US/US]; 5954 Giffendale Drive, Cincinnati, Ohio 45239 (US). JONES, Brian, Edward [GB/NL]; Gravin Juliana van Stolberglaan 24, NL-2263 VA Leidschendam (NL). LIEBETON, Klaus [DE/DE]; Heinrichstrasse 2A, 64673 Zwingenberg (DE). MIRACLE, Gregory, S. [US/US]; 3095 Old Oxford Road, Hamilton, Ohio 45013 (US). OH, Hiroshi [JP/US]; 8541 Meadow Bluff Ct., Cincinnati, Ohio 45249 (US). POULOSE, Ayrookaran, J. [US/US]; 2848 Wakefield Drive, Belmont, California 94002 (US). RAMER, Sandra, W. [US/US]; 541 Middlebury Drive, Sunnyvale, California 94089 (US). SCHEIBEL, Jeffrey, J. [US/US]; 6651 Miami Trails Drive, Loveland, Ohio 45140 (US). WEYLER, Walter [US/US]; 252 Theresa Street, San Francisco, California 94112 (US). WHITED, Gregory M. [US/US]; 304 South Road, Belmont, California 94002 (US).

[Continued on next page]

(54) Title: PERHYDROLASE



(57) Abstract: The present invention provides methods and compositions comprising at least one perhydrolase enzyme for cleaning and other applications. In some particularly preferred embodiments, the present invention provides methods and compositions for generation of peracids. The present invention finds particular use in applications involving cleaning, bleaching and disinfecting.

REST AVAILABLE COPY



(74) Agent: MACKNIGHT, Kamrin, T.; GENENCOR INTERNATIONAL, INC., 925 Page Mill Road, Palo Alto, California 94304 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.